## AMENDMENTS TO THE CLAIMS

- 1. (Currently amended) A method of reducing an amount of a constituent in tobacco, said method comprising the steps of:
  - (a) providing a vessel containing said tobacco comprising said constituent;
- (b) contacting said tobacco with <u>a</u> subcritical fluid consisting of carbon dioxide or a hydrocarbon <u>wherein said amount of said constituent dissolves in said subcritical fluid; and</u>
- (c) removing said subcritical earbon dioxide <u>fluid</u> from said vessel, thereby reducing the amount of said constituent in said tobacco.
- 2. (Currently amended) A method of selectively reducing an amount of a secondary alkaloid relative to a primary alkaloid in tobacco, said method comprising the steps of:
- (a) providing a vessel containing said tobacco comprising said secondary alkaloid and said primary alkaloid;
- (b) contacting said tobacco with a subcritical fluid wherein a greater amount of said secondary alkaloid relative to said primary alkaloid dissolves in said subcritical fluid; and
- (c) removing said subcritical fluid from said vessel, thereby selectively reducing the amount of said secondary alkaloid relative to said primary alkaloid in said tobacco.

- 3. (Currently amended) A method of reducing an amount of a polycyclic aromatic hydrocarbon (PAH) in tobacco, said method comprising the steps of:
  - (a) providing a vessel containing said tobacco comprising said PAH;
- (b) contacting said tobacco with a subcritical fluid wherein said amount of said PAH dissolves in said subcritical fluid; and
- (c) removing said subcritical fluid from said vessel, thereby reducing the amount of said PAH in said tobacco.
- 4. (Currently amended) A method of selectively reducing an amount of a PAH relative to a primary alkaloid in tobacco, said method comprising the steps of:
- (a) providing a vessel containing said tobacco comprising said PAH and said primary alkaloid;
- (b) contacting said tobacco with a subcritical fluid wherein a greater amount of said PAH relative to said primary alkaloid dissolves in said subcritical fluid; and
- (c) removing said subcritical fluid from said vessel, thereby selectively reducing the amount of said PAH relative to said primary alkaloid in said tobacco.
- 5. (Currently amended) A method of reducing an amount of a constituent in tobacco, said method comprising the steps of:
- (a) providing a system comprising a plurality of connected vessels containing said tobacco comprising said constituent;

- (b) contacting tobacco in a first vessel with a subcritical fluid wherein said amount of said constituent dissolves in said subcritical fluid;
  - (c) removing said subcritical fluid from said first vessel; and
- (d) directing said subcritical fluid to a second vessel, thereby reducing the amount of said constituent in said tobacco in said first vessel.
- 6. (Original) The method of claim 5, further comprising the steps, before, during, or after step (c) of:
  - (i) isolating said first vessel from said system; and
  - (ii) removing said tobacco from said first vessel.
- 7. (Original) The method of claim 5, wherein in step (d), said subcritical fluid is that of step (c).
- 8. (Original) The method of any of claims 1-5, wherein in step (b), said subcritical fluid is a liquid.
  - 9. (Original) The method of claim 8, wherein said liquid is a compressed gas.
- 10. (Original) The method of any of claims 1-5, wherein in step (b), said subcritical fluid is a compressible gas.

- 11. (Original) The method of claim 1 or 5, further comprising, after step (c), the step of separating said constituent from said subcritical fluid.
- 12. (Original) The method of claim 2, further comprising, after step (c), the step of separating said secondary alkaloid from said subcritical fluid.
- 13. (Original) The method of claim 3 or 4, further comprising, after step (c), the step of separating said PAH from said subcritical fluid.
- 14. (Original) The method of claim 11, wherein said separating comprises flowing said fluid containing said constituent from step (c) into a separator vessel containing a substance capable of separating said constituent from said subcritical fluid.
- 15. (Original) The method of claim 14, wherein said substance comprises citric acid or magnesium silicate.
- 16. (Original) The method of claim 12, wherein said separating comprises flowing said fluid containing said secondary alkaloid from step (c) into a separator vessel containing a substance capable of separating said secondary alkaloid from said subcritical fluid.

- 17. (Original) The method of claim 16, wherein said substance comprises citric acid or magnesium silicate.
- 18. (Original) The method of claim 13, wherein said separating comprises flowing said fluid containing said PAH from step (c) into a separator vessel containing a substance capable of separating said PAH from said subcritical fluid.
- 19. (Original) The method of claim 11, wherein said separating comprises flowing said subcritical fluid containing said constituent from step (c) into a separator vessel, wherein said subcritical fluid undergoes a change in pressure or temperature and said constituent precipitates.
- 20. (Original) The method of claim 12, wherein said separating comprises flowing said subcritical fluid containing said secondary alkaloid from step (c) into a separator vessel, wherein said subcritical fluid undergoes a change in pressure or temperature and said secondary alkaloid precipitates.
- 21. (Original) The method of claim 13, wherein said separating comprises flowing said subcritical fluid containing said PAH from step (c) into a separator vessel, wherein said subcritical fluid undergoes a change in pressure or temperature and said PAH precipitates.

- 22. (Original) The method of claim 11, further comprising, after said separating, the step of recirculating said subcritical fluid to said vessel.
- 23. (Original) The method of claims 12, further comprising, after said separating, the step of recirculating said subcritical fluid to said vessel.
- 24. (Original) The method of claims 13, further comprising, after said separating, the step of recirculating said subcritical fluid to said vessel.
- 25. (Original) The method of claim 22, wherein during said recirculating, flavor or aroma compounds removed in step (b) are deposited in said tobacco.
- 26. (Original) The method of claim 23, wherein during said recirculating, flavor or aroma compounds removed in step (b) are deposited in said tobacco.
- 27. (Original) The method of claim 24, wherein during said recirculating, flavor or aroma compounds removed in step (b) are deposited in said tobacco.
- 28. (Original) The method of any of claims 2-5, wherein said subcritical fluid is selected from the group consisting of carbon dioxide, Freon 22, propane, ethane, nitrous oxide, and a combination thereof.

- 29. (Original) The method of any of claims 1-5, wherein the moisture content of said tobacco is at least 10%.
- 30. (Original) The method of any of claims 1-5, wherein the pH of said tobacco is between 4 and 9.
  - 31. (Original) The method of claim 1 or 5, wherein said constituent is a PAH.
- 32. (Original) The method of claim 1 or 5, wherein said constituent is a secondary alkaloid.
  - 33. (Original) Tobacco processed by the method of claim 1.
  - 34. (Original) Tobacco processed by the method of claim 2.
  - 35. (Original) Tobacco processed by the method of claim 3.
  - 36. (Original) Tobacco processed by the method of claim 4.
  - 37. (Original) Tobacco processed by the method of claim 5.